

DEFENSE ENERGY SUPPORT CENTER  
UTILITY PRIVATIZATION  
CONTRACTOR'S QUESTIONS #3  
& ANSWERS

**YUMA PROVING GROUND, AZ**  
(UPDATED: 21 DECEMBER 2004)

RFP #: **SP0600-04-R-0113**

CONTRACTING OFFICER: **Terri Workman (703.767.8130)**

CONTRACT SPECIALIST: **Nancy Barnett (703.767.9402)**

- A. Would you please provide the project scopes for project numbers 2357, 2603, and 2760, listed in Table 5 of Attachment J01 (page J01-10)?

<b>ANSWER:</b>	See Attached
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- B. Also, because of the experimental nature of the two photovoltaic stations we are having difficulty pricing the assets. Would you please provide the original installed cost and quantity of each asset type at the two stations? We have attached a worksheet that indicates the level of detail we need. If you can complete the worksheet, we will be much more confident in our valuation of the assets.

<b>ANSWER:</b>	There is no break down of the invested costs of the various parts of the PV facilities, only a total cost is available for them
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<b>Photovoltaic Station Data</b>			1-Dec-04	
<b>Yuma Proving Grounds</b>				
	<b>825 kW Station</b>		<b>105 kW Station</b>	
Item	Quantity	Original Cost (1997)	Quantity	Original Cost (1997)
Solar Panels				
Inverters				
Batteries				
Step-Up Transformer				
Metering Transformer				
Building				
Generator				
Fencing, Gravel, miscellaneous				

C. Finally, with reference to the **YPG transmission** lines (not the distribution lines), we have the following questions:

1) What is the prevalent size of the transmission feeder conductor?

ANSWER:	The feeder conductor sizes are: 336, 3/0, & 2/0 ACSR
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2) What are the size and type (wood or metal) of the transmission poles? On page J01-3, next to last paragraph, it says that "These circuits are constructed with single pole, horizontal post, overhead static wire construction practices." But the inventory list on page J01-4 includes "Transmission Towers (2 poles/tower)". What is the design of the transmission poles? Are they cross-braced?

ANSWER:	Very few steel poles are in use. They are located in two areas, some on Pole Line Road in the KOFA firing Range, and a few in the Main Administration area. All the rest are wooden. The designs of the poles are as follows: A few are A Frame, A few are Braced, but most are Slim-line Close Construction.
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3) What is the size and type of the overhead ground wire?

ANSWER:	Overhead Ground Wires are all 3/8" HS Steel.
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4) If the structures are steel, are they direct buried or do they have concrete foundations?

ANSWER:	All steel structures are Direct Buried.
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5) Please confirm that there are no lattice towers being used for the transmission lines.

ANSWER:	There are no Lattice towers being used for transmission lines.
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## WORK ORDER ROUTING SLIP

# 2357

BLDG.#

CIBOLA

DESCR.

provide underground electric

DATE	INITIAL	DEPT PE / WR	ACTION
8-8-00	LM	WR	Receive, enter into IFSM, coordinate
		WR	To Unit Price Estimate
8/28/00	RLT	PE	Site visit with the requestor
2	2	PE	Desk estimate, IFSM
		PE	Copy of unit price estimate to W.R.
9-12-00	LM	WR	Enter Complete Unit Price Estimate in IFSM
		WR	Schedule W.O. for meeting w/slip
		WR	Enter Meeting Status in IFSM, i.e. APV
		WR	Send status letter to requestor
		WR	To Detail Estimate, send pink 4283 to PE
		PE	Complete Detail Estimate, copy to W.R.
		WR	Enter status in IFSM, SUP/SCH
		PE	Schedule Work, route to WR
		WR	Enter work schedule status in IFSM SHP
		PE	Work complete Physically
		PE	Close Out Package to Budget
		WR	Close Out IFSM
		B&A	IJO completion with cost
		B&A	Cost to WR
		WR	File cost in WR file

## Pyramid Services, Inc Desk Estimate



W.R.# 2357

Date: 8/28/00

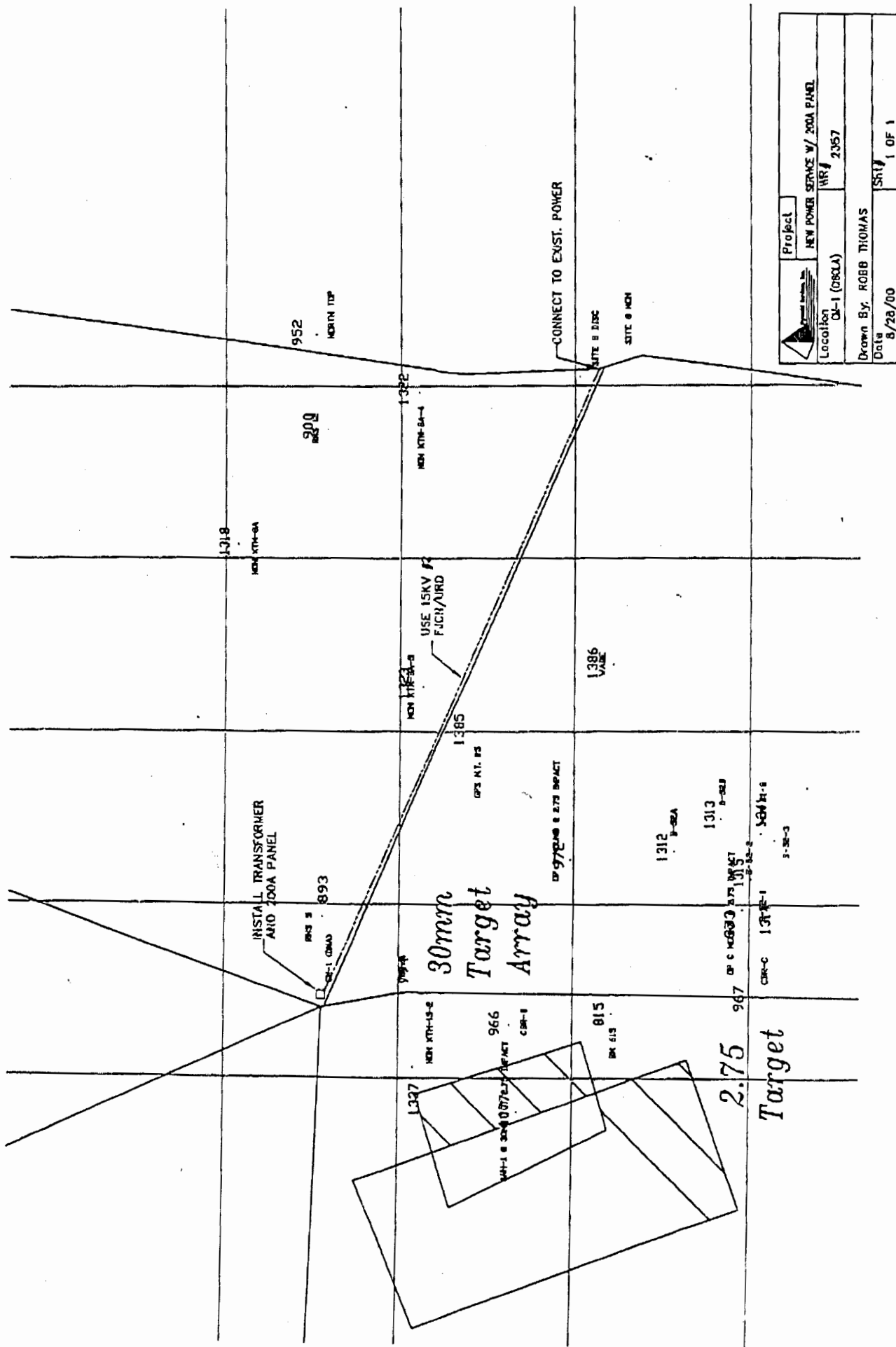
Page 1 of 1

Project: PROVIDE UNDERGROUND ELECT.

Location: Cm-1 (Cibola)

Estimator *Robb Thomas*

Item/Description	Cost			Total Material	Labor Hours	Total Labor Hours	Labor Cost /Hour	Total Cost Labor	Shop
	# units	unit meas	unit Cost						
Wire #2, Alum, 15KV-EJCN/URD	42500	LF	1.10	46750-					
Standard YPB Backboard	1	LS	3500	3500-					
75 KVA feed mount X-former	1	EA	3000	3000-					
Lighting arrester/cut out Combo	3	EA	105	315-					
Bracket	3	EA	40	120-					
Aerial Term.	3	EA	50	150-					
U-guard 4"	2	EA	80	160-					
U-guard Boot	1	EA	80	80-					
Concrete	1.5	SY	85.25	128.13-					
Splice Kit (in-line splice)	39	EA	36	1404-					
4" Elbows	6	EA	25	150-					
Labor									
Carpenter						10	33.52	335.20	
Elect (HV)						1500	47.74	71610	
P/E						20	29.94	598.80	
Sub				55757.63					72544-
25% Contingency			32075.41						
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> Total: \$116,937.04 </div>									
Total:									



Project	
NEW POWER SERVICE W/ 200A PANEL	
Location	NR 2357
DR-1 (080A)	
Drawn By: ROBB THOMAS	
Date	8/28/00
Sht 1 OF 1	

[illegible]

GREEN - FORWARD TO KEYPUNCH AFTER COMPLETION OF "FORWARD FOR APPROVAL" BLOCK  
YELLOW - REQUESTOR'S COPY

- PROJECT FILE COPY  
- FORWARD TO KEYPUNCH AFTER COMPLETION  
OF "APPROVAL ACTION" BLOCK  
SUSPENSE FILE

WHITE  
PINK  
BLUE

DA FORM 4283 EDITION OF 1 FEB 68 WILL BE USED UNTIL EXHAUSTED



## Pyramid Services, Inc Desk Estimate



W.R.# 2603

Date: 2-27-03

Page

Project: Install 30, 0/H PWR LINE 7200/12420V 3P SLIM LINE

Location: Twa m to Brown Estimator Bob Thomas

Item/Description	Cost			Total Material	Labor Hours	Total Labor Hours	Labor Cost /Hour	Total Cost Labor	Shop
	# units	unit meas	unit Cost						
① Dig Holes	60	ea			3.5	210.0			09X
3.3 miles 300' SPAN.									
② SPOT POLES & Handling	60	ea			7.4	444.0			
③ ERECT POLES 40' CHT STEEL	60	ea	462	27,720 <sup>00</sup>	13.0	780.0			
④ WIRE SPOT & MAT'L HANDLING									
PER WIRE MILE #2 ASCR	70,000	LF	.22	15,400 <sup>00</sup>					
LABOR PER WIRE MILE									
3.3 MI X 4 =	13.2	w/mi			9.0	119.0			
⑤ INSTALL CONDUCTORS	13.2	w/mi			44.9	593.0			
15KV SLIM HAZE INSUL	240	ea	62	14,880 <sup>00</sup>	INCL				
⑥ SAGG	13.2	w/mi			10.0	132.0			
SUB TOTAL				\$58,008 <sup>00</sup>		2278.0			
UV Labor & EQ	2278	hr	\$55.41	126,224 <sup>00</sup>					
1KE Labor & VEH	100.0	hr	35.60	3560 <sup>00</sup>					
SUB TOTAL				\$187,792 <sup>00</sup>					
+ 10% CONT				18779 <sup>00</sup>					
Total:				\$206,571 <sup>00</sup>					



4-MFR-03 RMT  
YPGFACILITIES ENGINEERING WORK REQUEST  
WORK REQUEST INFORMATION

PCN A99-003

DOCUMENT NUMBER	SHORT JOB DESC	INSTL ADDR	FAC NO
MT 02503 3 J	EXTEND ELECTRICAL POWER	YPG	
FRE:	PRIORITY: 000 CATEGORY:	LAST UPDATED:	BY:
REMARK: 3YTHAN103	**COST EST ONLY**		
CUSTOMER: MATERIAL TEST	POC: CHET JANSKY	PHONE: 920-0106	

## WORK DESCRIPTION

EXTEND ELECTRICAL POWER TO TOWER M TO BROWN.

SEE

ATTACHED MAP.

WORK REQUEST PRIORITY: APPROVAL WORKCLASS: CODE UNFUNDED FUNDED

L

PROG IND CD:	PROG CAT CD:	
SEPC INT CD:	EST WORK START DATE:	
WORK STATUS: TUE	EST WORK COMPL DATE:	TOTAL:

4-MAR-03 RMT  
YPSUNIT PRICE ESTIMATE  
COST SUMMARY SHEET

PCN A99-003

DOCUMENT NUMBER: MT 92603 3 J SHORT JOB DESC: EXTEND ELECTRICAL POWER

RECOMPUTE DATE:

COST TYPE	WORK CLASS	METHOD OF ACCOMPL	FUNDING
LABOR	114674 J	IN-HOUSE	206571 FUNDED
MATERIAL	91897 K	TROOP	UNFUNDED
EQUIP RNTL	L 206571	SELF-HELP	
DEPR	M	CONTRACT	
	OTHER		
GRAND TOTAL			206571

COST TYPE	J	K	L	M	OTHER
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LABOR	114674				
MATERIAL	91897				
EQUIP RNTL					
DEPR					

4-MAR-03 RMT  
YPS

## UNIT PRICE ESTIMATE

PCN A99-003

DOCUMENT NUMBER: HT 02602 I J SHORT JOB DESC: EXTEND ELECTRICAL POWER  
 TASK NO: 001 METHOD OF ACCOMPLISHMENT: I WORK CLASS: L LABOR RATE: E  
 UPS NO: 00000 ORIGIN: L LAST UPDATED: 4-MAR-03 BY: RMT  
 QUANTITY: 1.00 U/H LS EQUIP DEPR:  
 TITLE: EXTEND 3 PHASE, 0/H, HIGH VOLTAGE POWER LINE FROM TOWER M TO TOWER  
 (B 4983) AT BROWN IMPACT. LABOR & MATERIALS FOR APPROX 3.3 MILES  
 OF POWER LINE. PLANNING, ESTIMATING & 10% CONTINGENCY.

L L HIGH VOLTAGE ELECT	2278.0	48.81 HR	111189.16
L M HV EQUIPMENT	2278.0	6.60 HR	15034.80
L M STEEL POLES, WIRE, INSULATORS, ETC	1.0	55008.00 LS	55008.00
L L ESTIMATING/WORK MGMT	100.0	34.85 HR	3485.00
L M PWS VEHICLE	100.0	.75 HR	75.00
L M 10% CONTINGENCY	1.0	18779.00 LS	18779.00
LABOR:	114678	MATERIALS:	91897
EQUIPMENT:		TOTAL:	206572

